



VHF AND UHF TRANSCEIVERS

IC-F3031T

VHF transceiver with full keypad

IC-F4031T

UHF transceiver with full keypad

IC-F3031S

VHF transceiver with simple keypad

IC-F4031S

UHF transceiver with simple keypad

Superior Waterproof Protection Combined with Versatile Functions



IP67 waterproof and dust-tight protection

The IC-F3031T/S series provides outstanding protection against water and dust equivalent to IP67. The IC-F3031T/S series can withstand 1 m depth of water for 30 minutes and its dust-tight construction that prevents the ingress of powder dust, sand, mud and other objects.

Longer operating time

The supplied waterproof Li-ion battery pack, BP-232WP (7.4 V, 2350 mAh (typ.)), provides 17.5 hours* of operating time. The battery has been designed for reliability in extremely cold environments.

*Tx:Rx:Standby=5:5:90. Power save function ON.

Selective calling, quiet stand-by and more

The IC-F3031T/S series has built-in 2-Tone, 5-Tone, CTCSS and DTCS signaling capabilities for group communication or selective calling. When a matched 2-Tone/5-Tone is received, the following actions are programmable for each code.

- Answer back calls • Beep sounds • Bell icon
- Radio stun/kill/revive • Auto TX • Scan

MDC 1200 compatible

The following selective calling and ANI features are programmable with the built-in MDC signaling.

- PTT ID • Emergency (No ACK transmission)
- Radio check (RX only) • Stun/Revive (RX only)

Emergency function

A red button on the top panel can be used as an emergency button and can be used to transmit an emergency signal. Man down (optional UT-124R required) and lone worker functions can also be used for the emergency function trigger.

Scan features

Priority scan allows you to monitor one or two priority channels while scanning other channels. The mode dependent scan automatically changes the scanning list following the operating channel. The Tx channel and talk back functions allow you to make a quick response while scanning.

Internal option units available

The IC-F3031T/S series has an internal socket for a variety of option units including voice scrambler, DTMF decoder or man down unit.

Other features

- Up to 128 memory channel with 8 zones
- 8-character alphanumeric LCD
- 8 DTMF autodial memories
- Optional HM-168LWP, waterproof speaker-mic
- BIIS PTT ID transmission
- Low battery alert
- 2-step power save
- PC programmable
- Time out timer
- Talk around function
- Surveillance function



IC-F4031T

IC-F3031S



Limited functions.

SPECIFICATIONS

	IC-F3031T/S	IC-F4031T/S
GENERAL		
Frequency coverage	136–174 MHz	400–470 MHz 450–512 MHz
Number of channels	128 channels/8 zones	
Type of emission	16K0F3E/11K0F3E	
Channel spacing	25/12.5 kHz 30/15 kHz	25/12.5 kHz
Power supply requirement	7.2 V DC nominal	
Current drain (approx.)		
Tx High	1.5 A (at 5W)	1.6 A (at 4 W)
Rx Max. audio/Standby	250 mA/75 mA	300 mA/75 mA
Antenna impedance	50 Ω	
Operating temperature range	–30 °C to +60 °C; –22 °F to +140 °F (Radio specifications)	
Dimensions (W × H × D) (Projections not included)	53 × 120 × 37 mm; 2.1 × 4.7 × 1.5 in (With BP-232WP)	
Weight (approx.)	310 g; 10.9 oz (With BP-232WP)	
TRANSMITTER		
Output power (at 7.2 V DC)	5 W, 2 W, 1 W (Hi, L2, L1)	4 W, 2 W, 1 W (Hi, L2, L1)
Max. frequency deviation	±5.0/±2.5 kHz (Wide/Narrow)	
Frequency stability	±2.5 ppm	
Spurious emissions	80 dB typ.	70 dB min.
FM Hum and Noise	46/40 dB typ. (Wide/Narrow)	
Audio harmonic distortion	3% typ. (AF 1 kHz 40% deviation)	
Ext. microphone connector	3-conductor 2.5 (d) mm (1/16")/2.2 kΩ	
RECEIVER		
Sensitivity (at 12 dB SINAD)	0.25 μV typ.	
Adjacent channel selectivity	75/65 dB typ. (Wide/Narrow)	
Spurious response rejection	70 dB min.	
Intermodulation rejection	75 dB typ.	74 dB typ.
Hum and noise	55/50 dB typ. (W/N)	45/40 dB typ. (W/N)
Audio output power	500 mW typ. (at 5% distortion, 8 Ω load)	
Ext. speaker connector	2-conductor 3.5 (d) mm (1/8")/8 Ω	

Measurements made in accordance with EIA/TIA-603.

All stated specifications are subject to change without notice or obligation.

* 25 kHz bandwidth is no longer available for FCC Part 90 licensees for USA versions. Ask your dealer if you need 25 kHz bandwidth.

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810G	
	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I-C
Solar Radiation	505.5	I
Rain Blowing/Drip	506.5	I, III
Humidity	507.5	II
Salt Fog	509.5	–
Dust Blowing	510.5	I
Immersion	512.5	I
Vibration	514.6	I
Shock	516.6	I, IV

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

Ingress Protection Standard (IC-F3031T/S, F4031T/S, BP-232WP & HM-168LWP)	
Dust & Water	IP67 (Dust-tight and waterproof protection)

Supplied accessories: (May differ according to version)

- Battery pack, BP-232WP
- Belt clip, MB-94
- Antenna

OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.

BATTERY PACK AND CASES


BP-232WP BP-240 BP-261

Battery packs and cases

Battery packs and cases	Type	Capacity	Operating time*
BP-232WP	Rechargeable Li-ion	2200 mAh (min.) 2350 mAh (typ.)	17.5 hours (Approx.)
BP-240	LR03 (AAA) batteries × 6		–
BP-261	LR6 (AA) batteries × 6		–

* Tx: Rx: standby = 5:5:90. Power save function ON.

REGULAR CHARGER


BC-147S*1 BC-123S*1 BC-160

BC-147S*1 Charges the BP-232WP in 8–10 hours (approx.).

BC-123S*1 Charges the BP-232WP in 3 hours (approx.).

*1 BC-123/BC-147SA for USA plug. SE for Europe plug. SV for Australia plug.

*2 AD-122 charger adapter is supplied with the BC-197, depending on version.

RAPID CHARGER


BC-197*2

Charges up to six BP-232WP battery packs in 3.5 hours (approx.).

SPEAKER-MICROPHONES


HM-168LWP HM-158LA HM-159LA

EARPHONE-MICROPHONES


HM-153LA HM-166LA

HEADSETS and PTT SWITCH CABLE


HS-94 Earhook type HS-95 Behind-the-head type HS-97 Throat type VS-4LA Required when using any of these headsets

CHARGER BRACKET


MB-130 For use with BC-160.

EARPHONE


SP-27 Tube earphone

LEATHER BELT HANGERS


MB-96N Swivel type MB-96F Fixed type MB-96FL Long type

BELT CLIPS


MB-93 Swivel type MB-94 Alligator type

CIGARETTE LIGHTER CABLE


CP-23L For use with BC-160

POWER SUPPLY CABLE


OPC-656 For use with BC-197

INTERNAL UNITS


UT-109R Non-rolling voice scrambler UT-110R Rolling voice scrambler UT-124R Man down unit

ANTENNAS

- FA-SC25V: 136–150 MHz
- FA-SC55V: 150–174 MHz
- FA-SC25U: 400–430 MHz
- FA-SC57U: 430–470 MHz
- FA-SC72U: 470–520 MHz

STUBBY ANTENNAS

- FA-SC56VS: 150–162 MHz
- FA-SC57VS: 160–174 MHz
- FA-SC73US: 450–490 MHz

CUT ANTENNAS

- FA-SC61VC: 136–174 MHz
- FA-SC61UC: 380–520 MHz

HIGH GAIN ANTENNAS

- FA-SC62V: 150–160 MHz
- FA-SC63V: 155–165 MHz

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